

# Analyzers Measure Greenhouse Gasses, Airborne Pollutants



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## **NASA Technology**

- ◆ As a part of the search for other life in the universe, NASA deploys deep-sea sensors on the ocean floor
- ◆ The sensors collect water from vent eruptions before returning to the surface, where the water is analyzed
- ◆ NASA is looking for ancient life forms that could take hold in a variety of alien environments

## **Partnership**

- ◆ To develop instrumentation capable of precisely measuring carbon in deep sea and deep space environments, NASA partnered with LGR through a Small Business Innovation Research (SBIR) contract
- ◆ The resulting innovation enabled a deep-sea carbon isotope analyzer for NASA's Medusa project and now forms the basis for LGR's commercial products



## **Benefits**

- ◆ LGR's SBIR-derived technology powers a variety of devices used to measure greenhouse gasses, pollutants, and isotopes
- ◆ Lasers measure precise amounts of practically any molecule with an absorption spectrum
- ◆ LGR products were used during the Deepwater Horizon oil spill to record methane distributions